```
(base) vishnu@pop-os:~$ ifconfig
lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 2816  bytes 230108 (230.1 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 2816  bytes 230108 (230.1 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

wlp0s20f3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.243.202  netmask 255.255.255.0  broadcast 192.168.243.255
        inet6 2409:408d:18e:ddc3:310c:e6b5:7e64:1f9a  prefixlen 64  scopeid 0x0<global>
        inet6 2409:408d:18e:ddc3:16af:5db6:7c9f:1569  prefixlen 64  scopeid 0x0<global>
        inet6 fe80::a051:a78e:bedd:223b  prefixlen 64  scopeid 0x20<link>
        ether f4:a4:75:e2:45:96  txqueuelen 1000  (Ethernet)
        RX packets 477  bytes 413124 (413.1 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 427  bytes 60232 (60.2 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

(base) vishnu@pop-os:~$ ifconfig lo
lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 2817  bytes 230181 (230.1 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 2817  bytes 230181 (230.1 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

```
(base) vishnu@pop-os:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: wlp0s20f3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
    link/ether f4:a4:75:e2:45:96 brd ff:ff:ff:ff:ff:ff
    inet 192.168.243.202/24 brd 192.168.243.255 scope global dynamic noprefixroute wlp0s20f3
       valid_lft 3484sec preferred_lft 3484sec
    inet6 2409:408d:18e:ddc3:16af:5db6:7c9f:1569/64 scope global temporary dynamic
       valid_lft 7097sec preferred_lft 7097sec
    inet6 2409:408d:18e:ddc3:310c:e6b5:7e64:1f9a/64 scope global dynamic mngtmpaddr noprefixroute
       valid_lft 7097sec preferred_lft 7097sec
    inet6 fe80::a051:a78e:bedd:223b/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
(base) vishnu@pop-os:~$ ip a show wlp0s20f3
2: wlp0s20f3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
    link/ether f4:a4:75:e2:45:96 brd ff:ff:ff:ff:ff:ff
    inet 192.168.243.202/24 brd 192.168.243.255 scope global dynamic noprefixroute wlp0s20f3
       valid_lft 3468sec preferred_lft 3468sec
    inet6 2409:408d:18e:ddc3:16af:5db6:7c9f:1569/64 scope global temporary dynamic
       valid_lft 7081sec preferred_lft 7081sec
    inet6 2409:408d:18e:ddc3:310c:e6b5:7e64:1f9a/64 scope global dynamic mngtmpaddr noprefixroute
       valid_lft 7081sec preferred_lft 7081sec
    inet6 fe80::a051:a78e:bedd:223b/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
```

```
(base) vishnu@pop-os:~$ traceroute google.com
traceroute to google.com (142.250.196.46), 30 hops max, 60 byte packets
 1  _gateway (192.168.243.247)  1.682 ms  1.651 ms  2.301 ms
 2  * * *
 3  255.0.0.0 (255.0.0.0)  50.784 ms  51.566 ms  51.859 ms
 4  255.0.0.1 (255.0.0.1)  51.202 ms * *
 5  255.0.0.3 (255.0.0.3)  52.912 ms  52.900 ms  52.886 ms
 6  255.0.0.4 (255.0.0.4)  51.111 ms  39.978 ms  47.155 ms
 7  172.26.75.83 (172.26.75.83)  46.269 ms  46.250 ms  47.351 ms
 8  192.168.68.136 (192.168.68.136)  47.124 ms  47.112 ms 192.168.68.134 (192.168.68.134)  48.574 ms
 9  * * *
10  * * *
11  72.14.217.254 (72.14.217.254)  43.230 ms 74.125.50.202 (74.125.50.202)  43.417 ms 72.14.196.126 (72.14.196.126)  42.959 ms
12  * * *
13  74.125.242.129 (74.125.242.129)  38.925 ms 142.251.60.184 (142.251.60.184)  38.590 ms 74.125.242.129 (74.125.242.129)  196.479 ms
14  74.125.242.154 (74.125.242.154)  196.436 ms 142.251.55.29 (142.251.55.29)  34.563 ms 74.125.242.131 (74.125.242.131)  43.410 ms
15  108.170.253.97 (108.170.253.97)  41.973 ms maa03s45-in-f14.1e100.net (142.250.196.46)  37.964 ms  53.323 ms
(base) vishnu@pop-os:~$ sudo traceroute -I google.com
[sudo] password for vishnu:
traceroute to google.com (142.250.196.46), 30 hops max, 60 byte packets
 1  _gateway (192.168.243.247)  3.886 ms  3.870 ms  4.050 ms
 2  * * *
 3  255.0.0.0 (255.0.0.0)  52.801 ms  53.567 ms  53.565 ms
 4  255.0.0.1 (255.0.0.1)  52.795 ms  53.656 ms  53.777 ms
 5  255.0.0.3 (255.0.0.3)  52.788 ms  53.781 ms  54.341 ms
 6  255.0.0.4 (255.0.0.4)  51.967 ms  45.321 ms  46.129 ms
 7  172.26.75.83 (172.26.75.83)  45.301 ms  28.161 ms  41.620 ms
 8  192.168.68.136 (192.168.68.136)  40.801 ms 192.168.68.134 (192.168.68.134)  40.147 ms 192.168.68.136 (192.168.68.136)  40.879 ms
 9  * * *
10  * * *
11  72.14.217.254 (72.14.217.254)  39.172 ms  44.043 ms  22.417 ms
12  216.239.43.135 (216.239.43.135)  41.169 ms  49.262 ms  50.203 ms
13  142.251.55.29 (142.251.55.29)  48.551 ms  48.716 ms  44.309 ms
14  maa03s45-in-f14.1e100.net (142.250.196.46)  41.186 ms  39.689 ms  40.477 ms
```

```
(base) vishnu@pop-os:~$ tracepath google.com
 1?: [LOCALHOST]                              0.006ms pmtu 1500
 1:  2409:408d:18e:ddc3::f8                                96.619ms
 1:  2409:408d:18e:ddc3::f8                                 1.968ms
 2:  no reply
 3:  2405:200:363:161:5::3                                 74.526ms asymm  2
 4:  2405:200:801:900::13cf                                95.121ms asymm  3
 5:  2405:200:801:900::12f6                                74.556ms
 6:  2405:200:801:900::128f                                71.171ms asymm  5
 7:  2001:4860:1:1::16a                                    63.149ms asymm  8
 8:  2001:4860:1:1::d10                                    79.568ms asymm 11
 9:  no reply
10:  no reply
11:  no reply
12:  no reply
13:  no reply
14:  no reply
15:  no reply
16:  no reply
17:  no reply
18:  no reply
19:  no reply
20:  no reply
21:  no reply
22:  no reply
23:  no reply
24:  no reply
25:  no reply
26:  no reply
27:  no reply
28:  no reply
29:  no reply
30:  no reply
     Too many hops: pmtu 1500
     Resume: pmtu 1500
```

```
(base) vishnu@pop-os:~$ ping google.com
PING google.com(maa03s29-in-x0e.1e100.net (2404:6800:4007:80a::200e)) 56 data bytes
64 bytes from maa03s29-in-x0e.1e100.net (2404:6800:4007:80a::200e): icmp_seq=1 ttl=57 time=38.9 ms
64 bytes from maa03s29-in-x0e.1e100.net (2404:6800:4007:80a::200e): icmp_seq=2 ttl=57 time=48.1 ms
64 bytes from maa03s29-in-x0e.1e100.net (2404:6800:4007:80a::200e): icmp_seq=3 ttl=57 time=46.4 ms
64 bytes from maa03s29-in-x0e.1e100.net (2404:6800:4007:80a::200e): icmp_seq=4 ttl=57 time=40.8 ms
64 bytes from maa03s29-in-x0e.1e100.net (2404:6800:4007:80a::200e): icmp_seq=5 ttl=57 time=96.3 ms
64 bytes from maa03s29-in-x0e.1e100.net (2404:6800:4007:80a::200e): icmp_seq=6 ttl=57 time=38.6 ms
64 bytes from maa03s29-in-x0e.1e100.net (2404:6800:4007:80a::200e): icmp_seq=7 ttl=57 time=45.2 ms
^C
--- google.com ping statistics ---
8 packets transmitted, 7 received, 12.5% packet loss, time 7027ms
rtt min/avg/max/mdev = 38.563/50.598/96.279/18.966 ms
(base) vishnu@pop-os:~$ ping -c 5 google.com
PING google.com(maa03s29-in-x0e.1e100.net (2404:6800:4007:80a::200e)) 56 data bytes
64 bytes from maa03s29-in-x0e.1e100.net (2404:6800:4007:80a::200e): icmp_seq=1 ttl=57 time=370 ms
64 bytes from maa03s29-in-x0e.1e100.net (2404:6800:4007:80a::200e): icmp_seq=2 ttl=57 time=42.9 ms
64 bytes from maa03s29-in-x0e.1e100.net (2404:6800:4007:80a::200e): icmp_seq=3 ttl=57 time=41.0 ms
64 bytes from maa03s29-in-x0e.1e100.net (2404:6800:4007:80a::200e): icmp_seq=4 ttl=57 time=118 ms
64 bytes from maa03s29-in-x0e.1e100.net (2404:6800:4007:80a::200e): icmp_seq=5 ttl=57 time=45.6 ms

--- google.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4010ms
rtt min/avg/max/mdev = 41.035/123.615/370.478/126.792 ms
```

```
(base) vishnu@pop-os:~$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp6       0      0 pop-os:56198            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:49898            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:56176            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:56208            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:56182            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:49936            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:49924            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:56134            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:56144            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:56128            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:49908            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:56224            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:56158            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:56202            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:56166            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:49904            2a04:4e42:25::347:https ESTABLISHED
tcp6       0      0 pop-os:56180            2a04:4e42:25::347:https ESTABLISHED
udp        0      0 pop-os:bootpc           _gateway:bootps         ESTABLISHED
udp6       0      0 pop-os:41169            2620:2d:4000:1::41:ntp  ESTABLISHED
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags       Type       State         I-Node   Path
unix  3      [ ]         STREAM     CONNECTED     39089    /run/systemd/journal/stdout
unix  3      [ ]         STREAM     CONNECTED     33457
unix  3      [ ]         STREAM     CONNECTED     39007    /run/user/1000/bus
unix  3      [ ]         STREAM     CONNECTED     38352
unix  3      [ ]         STREAM     CONNECTED     21946    /run/dbus/system_bus_socket
unix  3      [ ]         STREAM     CONNECTED     38907    /run/user/1000/bus
unix  3      [ ]         STREAM     CONNECTED     34465
unix  3      [ ]         STREAM     CONNECTED     40271    @/home/vishnu/.cache/ibus/dbus-xPDWW91H
unix  3      [ ]         STREAM     CONNECTED     34324
unix  3      [ ]         STREAM     CONNECTED     34295
unix  3      [ ]         STREAM     CONNECTED     33371
unix  3      [ ]         STREAM     CONNECTED     32091
unix  3      [ ]         STREAM     CONNECTED     30128
unix  3      [ ]         STREAM     CONNECTED     28699
unix  3      [ ]         STREAM     CONNECTED     40211    /run/systemd/journal/stdout
unix  3      [ ]         STREAM     CONNECTED     40004
unix  3      [ ]         STREAM     CONNECTED     31298    /run/user/1000/bus
unix  3      [ ]         STREAM     CONNECTED     42282
unix  2      [ ]         DGRAM                    31625
unix  3      [ ]         STREAM     CONNECTED     37072
unix  3      [ ]         STREAM     CONNECTED     31626
unix  3      [ ]         STREAM     CONNECTED     49244
```

```
(base) vishnu@pop-os:~$ netstat -s
Ip:
    Forwarding: 2
    3468 total packets received
    1 with invalid addresses
    0 forwarded
    0 incoming packets discarded
    3465 incoming packets delivered
    3447 requests sent out
    18 dropped because of missing route
Icmp:
    69 ICMP messages received
    0 input ICMP message failed
    ICMP input histogram:
        destination unreachable: 3
        timeout in transit: 59
        echo replies: 7
    48 ICMP messages sent
    0 ICMP messages failed
    ICMP output histogram:
        destination unreachable: 2
        echo requests: 46
IcmpMsg:
        InType0: 7
        InType3: 3
        InType11: 59
        OutType3: 2
```

```
(base) vishnu@pop-os:~$ netstat -r
Kernel IP routing table
Destination      Gateway          Genmask          Flags   MSS Window  irtt Iface
default          _gateway         0.0.0.0          UG        0 0          0 wlp0s20f3
link-local       0.0.0.0          255.255.0.0      U         0 0          0 wlp0s20f3
192.168.243.0    0.0.0.0          255.255.255.0    U         0 0          0 wlp0s20f3
```

```
(base) vishnu@pop-os:~$ ss
Netid     State     Recv-Q     Send-Q                          Local Address:Port                        Peer Address:Port          Process
u_str     ESTAB     0          0                   /run/systemd/journal/stdout 39089                              * 34465
u_str     ESTAB     0          0                                             * 33457                              * 39069
u_str     ESTAB     0          0                               /run/user/1000/bus 39007                           * 38456
u_str     ESTAB     0          0                                             * 38352                              * 39980
u_str     ESTAB     0          0                   /run/dbus/system_bus_socket 21946                              * 21943
u_str     ESTAB     0          0                               /run/user/1000/bus 38907                           * 40756
u_str     ESTAB     0          0                                             * 34465                              * 39089
u_str     ESTAB     0          0         @/home/vishnu/.cache/ibus/dbus-xPDWW91H 40271                            * 40270
u_str     ESTAB     0          0                                             * 34324                              * 36776
u_str     ESTAB     0          0                                             * 34295                              * 39997
u_str     ESTAB     0          0                                             * 33371                              * 40202
u_str     ESTAB     0          0                                             * 32091                              * 33048
u_str     ESTAB     0          0                                             * 30128                              * 33826
u_str     ESTAB     0          0                                             * 28699                              * 28698
u_str     ESTAB     0          0                   /run/systemd/journal/stdout 40211                              * 40210
u_str     ESTAB     0          0                                             * 40004                              * 34306
u_str     ESTAB     0          0                               /run/user/1000/bus 31298                           * 37080
u_str     ESTAB     0          0                                             * 52927                              * 50001
u_str     ESTAB     0          0                                             * 42282                              * 34811
u_str     ESTAB     0          0                                             * 37072                              * 39966
u_str     ESTAB     0          0                                             * 31626                              * 34332
u_str     ESTAB     0          0                                             * 49244                              * 45919
u_str     ESTAB     0          0                   /run/dbus/system_bus_socket 37210                              * 37205
u_str     ESTAB     0          0                               /run/user/1000/bus 37171                           * 37170
u_str     ESTAB     0          0                                             * 29863                              * 30803
u_str     ESTAB     0          0                               /run/user/1000/bus 39053                           * 36832
u_str     ESTAB     0          0                     /run/user/1000/at-spi/bus_1 33435                            * 38511
u_dgr     ESTAB     0          0                                             * 31031                              * 31030
u_str     ESTAB     0          0                                             * 22026                              * 27634
u_str     ESTAB     0          0                                             * 33367                              * 40188
u_dgr     ESTAB     0          0                                             * 30817                              * 23911
u_dgr     ESTAB     0          0                                             * 23131                              * 23935
u_str     ESTAB     0          0                   /run/systemd/journal/stdout 23101                              * 28707
u_str     ESTAB     0          0                               /run/user/1000/bus 36791                           * 37132
u_str     ESTAB     0          0                   /run/dbus/system_bus_socket 40708                              * 38881
u_str     ESTAB     0          0                                             * 39083                              * 38542
u_str     ESTAB     0          0                                             * 39016                              * 38472
u_str     ESTAB     0          0                                             * 39948                              * 37065
u_str     ESTAB     0          0                                             * 33180                              * 31147
u_dgr     ESTAB     0          0                                             * 29483                              * 23937
```

```
(base) vishnu@pop-os:~$ dig google.com

; <<>> DiG 9.18.12-0ubuntu0.22.04.2-Ubuntu <<>> google.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 60025
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;google.com.                    IN      A

;; ANSWER SECTION:
google.com.             230     IN      A       142.250.195.142

;; Query time: 272 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Thu Jul 27 20:54:28 IST 2023
;; MSG SIZE  rcvd: 55
```

```
(base) vishnu@pop-os:~$ nslookup google.com
Server:         127.0.0.53
Address:        127.0.0.53#53

Non-authoritative answer:
Name:   google.com
Address: 142.250.195.142
Name:   google.com
Address: 2404:6800:4007:80a::200e
```

```
(base) vishnu@pop-os:~$ route
Kernel IP routing table
Destination     Gateway         Genmask         Flags Metric Ref    Use Iface
default         _gateway        0.0.0.0         UG    600    0        0 wlp0s20f3
link-local      0.0.0.0         255.255.0.0     U     1000   0        0 wlp0s20f3
192.168.243.0   0.0.0.0         255.255.255.0   U     600    0        0 wlp0s20f3
(base) vishnu@pop-os:~$ route -n
Kernel IP routing table
Destination     Gateway         Genmask         Flags Metric Ref    Use Iface
0.0.0.0         192.168.243.247 0.0.0.0         UG    600    0        0 wlp0s20f3
169.254.0.0     0.0.0.0         255.255.0.0     U     1000   0        0 wlp0s20f3
192.168.243.0   0.0.0.0         255.255.255.0   U     600    0        0 wlp0s20f3
```

```
(base) vishnu@pop-os:~$ host google.com
google.com has address 142.250.195.142
google.com has IPv6 address 2404:6800:4007:80a::200e
google.com mail is handled by 10 smtp.google.com.
```

```
(base) vishnu@pop-os:~$ arp
Address                  HWtype  HWaddress           Flags Mask            Iface
_gateway                 ether   72:47:1a:1a:71:85   C                     wlp0s20f3
(base) vishnu@pop-os:~$ arp -n
Address                  HWtype  HWaddress           Flags Mask            Iface
192.168.243.247          ether   72:47:1a:1a:71:85   C                     wlp0s20f3
```

```
(base) vishnu@pop-os:~$ iwconfig
lo        no wireless extensions.

wlp0s20f3  IEEE 802.11  ESSID:"Vishnu's Mi"
          Mode:Managed  Frequency:2.432 GHz  Access Point: 72:47:1A:1A:71:85
          Bit Rate=72.2 Mb/s   Tx-Power=22 dBm
          Retry short limit:7   RTS thr:off    Fragment thr:off
          Power Management:on
          Link Quality=70/70  Signal level=-17 dBm
          Rx invalid nwid:0  Rx invalid crypt:0  Rx invalid frag:0
          Tx excessive retries:0  Invalid misc:59   Missed beacon:0
```

```
(base) vishnu@pop-os:~$ hostname
pop-os
(base) vishnu@pop-os:~$ sudo hostname vishnu
(base) vishnu@pop-os:~$ hostname
vishnu
```

```
(base) vishnu@pop-os:~$ curl -O http://web.iiitdm.ac.in/noor/hpcw2021.pdf
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100  171k  100  171k    0     0  15577      0  0:00:11  0:00:11 --:--:-- 41060
```

```
(base) vishnu@pop-os:~$ wget  http://web.iiitdm.ac.in/noor/hpcw2021.pdf
--2023-07-27 20:59:14--  http://web.iiitdm.ac.in/noor/hpcw2021.pdf
Resolving web.iiitdm.ac.in (web.iiitdm.ac.in)... 64:ff9b::adec:cdcf, 173.236.205.207
Connecting to web.iiitdm.ac.in (web.iiitdm.ac.in)|64:ff9b::adec:cdcf|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 175817 (172K) [application/pdf]
Saving to: 'hpcw2021.pdf.1'

hpcw2021.pdf.1             100%[===================================================>] 171.70K   178KB/s    in 1.0s

2023-07-27 20:59:16 (178 KB/s) - 'hpcw2021.pdf.1' saved [175817/175817]
```

pop-os (::1) -> localhost (::1)   2023-07-27T21:00:34+0530
Keys: **H**elp   **D**isplay mode   **R**estart statistics   **O**rder of fields   **q**uit

| | Packets | | | Pings | | | |
Host	Loss%	Snt	Last	Avg	Best	Wrst	StDev
1. localhost	0.0%	51	0.1	0.1	0.1	0.1	0.0

```
(base) vishnu@pop-os:~$ whois google.com
   Domain Name: GOOGLE.COM
   Registry Domain ID: 2138514_DOMAIN_COM-VRSN
   Registrar WHOIS Server: whois.markmonitor.com
   Registrar URL: http://www.markmonitor.com
   Updated Date: 2019-09-09T15:39:04Z
   Creation Date: 1997-09-15T04:00:00Z
   Registry Expiry Date: 2028-09-14T04:00:00Z
   Registrar: MarkMonitor Inc.
   Registrar IANA ID: 292
   Registrar Abuse Contact Email: abusecomplaints@markmonitor.com
   Registrar Abuse Contact Phone: +1.2086851750
   Domain Status: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited
   Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
   Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited
   Domain Status: serverDeleteProhibited https://icann.org/epp#serverDeleteProhibited
   Domain Status: serverTransferProhibited https://icann.org/epp#serverTransferProhibited
   Domain Status: serverUpdateProhibited https://icann.org/epp#serverUpdateProhibited
   Name Server: NS1.GOOGLE.COM
   Name Server: NS2.GOOGLE.COM
   Name Server: NS3.GOOGLE.COM
   Name Server: NS4.GOOGLE.COM
   DNSSEC: unsigned
   URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
>>> Last update of whois database: 2023-07-27T15:31:06Z <<<

For more information on Whois status codes, please visit https://icann.org/epp

NOTICE: The expiration date displayed in this record is the date the
registrar's sponsorship of the domain name registration in the registry is
currently set to expire. This date does not necessarily reflect the expiration
date of the domain name registrant's agreement with the sponsoring
registrar.  Users may consult the sponsoring registrar's Whois database to
view the registrar's reported date of expiration for this registration.

TERMS OF USE: You are not authorized to access or query our Whois
database through the use of electronic processes that are high-volume and
automated except as reasonably necessary to register domain names or
modify existing registrations; the Data in VeriSign Global Registry
Services' ("VeriSign") Whois database is provided by VeriSign for
information purposes only, and to assist persons in obtaining information
about or related to a domain name registration record. VeriSign does not
guarantee its accuracy. By submitting a Whois query, you agree to abide
by the following terms of use: You agree that you may use this Data only
for lawful purposes and that under no circumstances will you use this Data
to: (1) allow, enable, or otherwise support the transmission of mass
```

```
(base) vishnu@pop-os:~$ iftop
interface: wlp0s20f3
IP address is: 192.168.243.202
IPv6 address is: 2409:408d:18e:ddc3:16af:5db6:7c9f:1569
MAC address is: f4:a4:75:e2:45:96
pcap_open_live(wlp0s20f3): wlp0s20f3: You don't have permission to capture on that device (socket: Operation not permitted)
(base) vishnu@pop-os:~$ iftop -p
interface: wlp0s20f3
IP address is: 192.168.243.202
IPv6 address is: 2409:408d:18e:ddc3:16af:5db6:7c9f:1569
MAC address is: f4:a4:75:e2:45:96
pcap_open_live(wlp0s20f3): wlp0s20f3: You don't have permission to capture on that device (socket: Operation not permitted)
(base) vishnu@pop-os:~$ sudo iftop -b
interface: wlp0s20f3
IP address is: 192.168.243.202
IPv6 address is: 2409:408d:18e:ddc3:16af:5db6:7c9f:1569
MAC address is: f4:a4:75:e2:45:96
(base) vishnu@pop-os:~$ sudo iftop -P
interface: wlp0s20f3
IP address is: 192.168.243.202
IPv6 address is: 2409:408d:18e:ddc3:16af:5db6:7c9f:1569
MAC address is: f4:a4:75:e2:45:96
```

```
(base) vishnu@pop-os:~$ tcpdump
tcpdump: wlp0s20f3: You don't have permission to capture on that device
(socket: Operation not permitted)
(base) vishnu@pop-os:~$ tcpdump -i wlp0s20f3 tcp
tcpdump: wlp0s20f3: You don't have permission to capture on that device
(socket: Operation not permitted)
(base) vishnu@pop-os:~$ sudo tcpdump -i wlp0s20f3 tcp
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode
listening on wlp0s20f3, link-type EN10MB (Ethernet), snapshot length 262144 bytes
^C
0 packets captured
0 packets received by filter
0 packets dropped by kernel
```

```
(base) vishnu@pop-os:~$ sudo nmap -O google.com
Starting Nmap 7.80 ( https://nmap.org ) at 2023-07-27 21:05 IST
Nmap scan report for google.com (142.250.193.142)
Host is up (0.044s latency).
Other addresses for google.com (not scanned): 2404:6800:4007:820::200e
rDNS record for 142.250.193.142: maa05s25-in-f14.1e100.net
Not shown: 998 filtered ports
PORT    STATE SERVICE
80/tcp  open  http
443/tcp open  https
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: general purpose
Running (JUST GUESSING): FreeBSD 8.X (86%), OpenBSD 4.X (86%)
OS CPE: cpe:/o:freebsd:freebsd:8.2 cpe:/o:openbsd:openbsd:4.0
Aggressive OS guesses: FreeBSD 8.2-RELEASE (86%), OpenBSD 4.0 (86%)
No exact OS matches for host (test conditions non-ideal).

OS detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 9.65 seconds
```